

"I Guess I Didn't Like That Word Unfortunately": Standardized Patients' Unscripted Techniques for Training Medical Students.

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1	Title:
2	"I guess I didn't like that word unfortunately": Standardized patients' performative
3	technique of "Repair Request" with medical trainees
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21 Abstract

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Introduction: This article focuses on standardized patients' (SP) performance in a context of breaking bad news education. It explores a performative technique in which the SP explicitly repeats one or more of the medical student's words, and analyzes the function and impact of this technique.

27

Methods: The study employs Conversation Analysis to examine pedagogical strategies embedded in the SPs verbal performance. It explores so-called echo utterances, through which the SP repeats all or part of what the student has said. In doing so the study utilizes the concept of repair in analyzing the SPs echo utterances, observing especially situations in which the SP initiates a request for the student to repair their utterance.

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Results: SPs use the technique of "Repair Request" to increase the students' awareness of their verbal communication and thus allow the student to rehearse their communication skills by re-formulating their utterances in character. Most of the repair procedures were initiated when the SP portrayed an angry patient. These Repair Requests include the patient's disbelief, or nonalignment with the physician, such as being offended by the physician claiming to know how they feel.

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41 Conclusions: The technique of Repair Request is intended to heighten the student's language 42 sensitivity, including the timing of presenting information. The technique resembles authentic 43 medical practice in that it mirrors the need for physicians to be able to solve criticism or 44 misunderstanding in-character. The technique could be rehearsed and used consciously in 45 other simulation scenarios as well.

46 **1. Introduction**

47 Standardized patients (SPs) are individuals who have been carefully recruited and trained to 48 simulate the role of a patient in various clinical scenarios for educational purposes. 49 Standardized patients work, for instance, with medical students to help them practice their 50 clinical and interpersonal skills in preparation for their medical licensing exams. Due to their 51 role in high-stakes assessments of medical student competencies, SPs are required to ensure 52 the "standard" of a consistent patient portrayal, thus providing each student an equal learning 53 and evaluation opportunity. At the same time, SPs must convincingly simulate authentic patient 54 behavior and react spontaneously to what the student says or does, or doesn't say or do. 55 Therefore, standardized patients' work inherently involves a tension between standardization 56 and authenticity. The balance between standardization and authenticity is particularly delicate 57 in the learning context of "breaking bad news," in which the students learn to deliver 58 unfavorable medical information to a patient. Ideally such an encounter is deeply human, 59 authentic, and empathic, yet the interaction is also a highly structured simulation governed by 60 clinical protocols and checklists. While the Breaking Bad News (BBN) scenario has a script 61 that guides the SP performance in many ways, their performance includes improvisatory 62 dimensions, which are not requested by the faculty, or documented or studied in detail. Some 63 of these improvisational methods have, in time, established themselves as what could be seen 64 as educational techniques developed by the SPs. This article advances a view in which 65 standardized patients are seen as educators controlling their own technology and 66 methodology¹. Our work aims to fill gaps in research on tacit techniques SPs have established 67 through years of practice and "peer-reviewing" each other's performance. Many of these 68 techniques are currently lost when the SP retires. This article focuses on one such technique, 69 by which the SP explicitly repeats one or more of the student's words. It analyzes the different 70 reasons for, and impact of this educational intervention; in this view the exploration of the types of utterances that trigger the SP's speech repetition unveils some of the students' challengesand pitfalls in presenting bad news to patients.

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74 While aspects of the SP work has previously been discussed in terms of dramatic arts², their 75 performance is typically studied in terms of its accuracy and consistency³, and, simultaneously, 76 criticized for being inflexible and inauthentic. Thus their improvisational capacities are either 77 being disciplined as flaws, or considered of a lesser "standard" than theatre actors' 78 improvisation skills⁴. Furthermore, SPs are often objectified; they are called "tools" that are being "used"⁵ and their training may involve mechanizing components such as learning an 79 80 "angry-algorithm"⁶ and ANGER acronym to trigger the bad mood⁷. While SPs' educational 81 capacities are increasingly acknowledged, this often concerns their ability to give feedback 82 *after* coming out of their role⁸, instead of during their role portrayal. Even though there exist 83 educational methods that generate feedback before the simulation encounter is over, for 84 instance, a "time-in, time-out", these often involve instructors deciding whether the student 85 should "re-do" certain parts of the dialogue⁹, instead of exploring the ways SPs elicit "re-doing" 86 in-character during the dialogue. In contrast, this article focuses on an improvisational 87 technique through which SPs give feedback to the student on the fly, *in-character*, performing reflection-in-action¹⁰. 88

89

A "breaking bad news" encounter is particularly charged with words that may mean different things to the physician and the patient. A common example of such a multi-meaning word is "tumor." While by tumor a doctor typically refers to either a benign or malign neoplasm, many patients associate the word's meaning with cancer and death¹¹. This paper focuses on situations in which the SPs use representation of the student's 'original' speech, by repeating what could be called "trigger words," which sound alarming, unclear or inappropriate to them,

96 or that the students use too casually. The SPs thus perform echo utterances, meaning that their wording repeats all or part of what the previous speaker has said¹². Although echo 97 98 utterances can be utilized as a conscious educational technique, they emerge as part of the 99 improvisational dimension of the SP work. Echo utterances may have many benefits in 100 developing students' awareness of their vocabulary and presentation. For instance, the 101 technique helps the student to realize how (differently) the SP perceived what they've just said, 102 and do a spontaneous rerun to rectify the situation. The student is thus allowed to hear an 103 echo of himself or herself, as the SP partly or wholly mirrors the student's utterance.

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- 105

106 **2. Method**

107 This film-based ethnographic inquiry has two parallel tracks: 1. To explore SPs' performative 108 techniques in portraying a BBN scenario, and 2. To create a film that translates these 109 techniques to be employed in SP training and complementing BBN classes in medical 110 education¹³. This paper focuses on the first strand, especially on the technique, meaning and 111 function of the SP's echoed utterances.

112

113 The data consists of three 90-minute sessions of a breaking bad news class given in the 114 University of Texas to third year medical students. It includes nine student encounters 115 (female=4, male=5) with two female SPs who have specialized in the BBN scenario for many 116 years, as well as the tutor and peer feedback in-between each student encounter. The original 117 BBN scenario has been adapted from the 1996 Southern California Macy Consortium. This 118 class is part of the third year clerkship in the Internal Medicine Department, generally having 119 about 240 students per year go through this exercise. In each session, three students volunteer 120 one at a time to participate in an SP encounter lasting approximately 12 minutes in front of a

121 large classroom. These sessions have been video recorded and verbatim transcribed. The 122 authors have recorded two of these sessions with two cameras in 2016; one of the recordings 123 was done by the faculty a few years earlier and made available to the authors. In addition, the 124 authors have witnessed several BBN sessions in preparation for the study. In all these 125 sessions, the same two SPs, as requested by faculty, exhibit three main personality types or 126 moods; sad, angry, and unfocused, and they are instructed not be too "easy on the student." 127 The analysis of these three distinct characters and their function will be presented in another 128 paper.

129

130 The study employs Conversation Analysis (CA) to examine educational strategies embedded 131 in the SPs' verbal performance. Conversation analysis is an approach to the study of practices 132 of speaking in a variety of contexts and settings. It has been previously applied to physician-133 patient interaction, and its potential has been recognized in medical education studies¹⁴. 134 However, to our knowledge, CA has not been utilized to study SP work, or the breaking bad 135 news simulation in particular. The analysis typically begins with an observation of something 136 in the recorded data: in this study, the analysis begins with the SPs' repetition of the students' 137 words in the breaking bad news conversation. Originating from research in conversation 138 analysis, this study utilizes the concept of repair in analyzing the SPs' echo utterances. In CA 139 the repair practices undertake trouble in speaking, hearing, or understanding¹⁵. Hoey and Kendrick¹⁶ identify three basic components in a repair procedure: trouble source (e.g., an 140 141 unfamiliar word), repair initiation (i.e., a signal that begins a repair procedure), and repair 142 solution (e.g., a rephrasing of the unfamiliar word). Either the speaker of the trouble source or 143 its recipient can initiate a repair procedure and/or produce a repair solution, thus the repair can be either self-initiated or other-initiated¹⁶. Repetition is one of the ways for the initiation of 144 repair¹⁷. Observation in this study is directed at other-initiated self-repair: the student's 145

146 utterance is the trouble source for the SP, instead of the student self. The SP subsequently, 147 often by repeating the student partially or wholly, requires the student to re-formulate, thus 148 repair, their previous utterance. In computer terms, the SPs here conduct performative 149 "speech-mining" and a form of "undoing" the student's previous utterance. This allows the 150 student to reconsider and reframe what they just said, thus taking a step back while staying in 151 character. This may be a repetition of an entire sentence, or a selected key word that has 152 triggered the SP either as inappropriate, alarming, vague or including medical jargon. The 153 repetition may concern a sentence with or without a question, and repeat the whole question 154 or only part of it. The SP may also initiate the repair by asking another question, which includes 155 the trigger word: "What do you mean by biopsy"? Such questions differ from questions the SPs 156 ask unrelated to the student's vocabulary, such as: "Am I going to die?" Three aspects of the 157 data will be addressed: 1. the frequency of repair initiation by the SPs; 2. the types and 158 functions of their repair initiation; and 3. the methods that students use to self-repair their 159 utterances.

160

161 **3. Results**

SPs use *other-initiated self-repair* or the technique of "Repair Request" to increase the students' awareness of their verbal communication, and allow the students to rehearse their communication skills by re-formulating their utterances in character. Aspects especially addressed by the SPs' Repair Requests are students' used vocabulary and grammatical nuances, such as speaking in conditional, and the usage of certain key words and terms. Repair Request also points at the importance of the temporal dimension of the BBN encounter, in terms of proceeding too slow or too fast regarding the patient's behavior.

169 In the nine student encounters the SPs initiated 36 repair procedures in the student's speech. 170 20 of these instances were signaled by repeating one or more of the student's words. Most of 171 the repair procedures (n=29) were initiated in an angry character. The trigger utterances for 172 repair initiation include words such as unfortunately, might, suspicious, concern, large, cancer, 173 sooner and detail. SPs integrate these words in their dialogue, for instance, by saying "what 174 do you mean *might*?" or "Sooner sooner, 1 week, 2 weeks, 3 weeks: I mean what is sooner to 175 you?" The repair initiation in this data emerges from the performance of the angry patient in 176 particular.

177

178 Correcting inappropriate utterances

179 Physicians typically solicit patients' presenting concerns with questions such as "What can I 180 do for you today"¹⁸. In the context of breaking bad news, some of such solicitations derive from 181 the SPIKES protocol, a six-step protocol developed for disclosing unfavorable medical 182 information¹⁹. The protocol, for instance, guides the student to "ask before you tell", meaning 183 that they should solicit information of what the patient knows of the purpose of the encounter. 184 Although the SPIKES is not taught in the McGovern medical school as such, some students 185 have either learned it elsewhere or studied it independently, and explicitly refer to it in the 186 breaking bad news encounter debriefing. The instances described in this study unveil 187 challenges related to physician solicitations, and SPs typically consider these inappropriate, 188 responding with irony or sarcasm. They also openly criticize the SPIKES protocol in their 189 feedback. In these situations, the repair initiation is a vehicle for displaying a stance of disbelief 190 or nonalignment with the physician¹⁷: "Say it again, what did you just say?" In fact, as relative 191 outsiders to the medical system, SPs may have an important role in questioning some of the 192 accepted educational protocols from the patient's point of view: studies using medical trainees 193 as simulated patients, in comparison, note a lack of criticism about medical jargon and acronyms²⁰. 194

195

217

feelings.

196	Doctor:	So, what's your understanding of what's going on?
197	Patient:	My understanding of what's going on? My understanding is that y'all are
198		putting me through hell to, because they saw something on my x-ray.
199		[]
200	Doctor:	How do you want me to tell you about this?
201	Patient:	Well, I want you to say it with your mouth.
202	Doctor:	Do you want me just to tell you directly?
203	Patient:	Well what are you going to do?
204	Doctor:	Okay, all right some people have different preference about who they
205		want us to tell.
206	Patient:	No, that's not me, I'm an adult and I may not have acted like one today
207		but I am.
208	Doctor:	It's okay, so, your CT shows changes that are consistent with lung
209	cancer.	
210		
211	Another genre of pe	rceived inappropriate utterances concerns the student claiming to know
212	how the SP feels aft	er hearing the bad news, or guessing out loud how the patient may feel.
213	Four of the nine end	counters involved a situation in which the SP corrected the student who
214	was claiming to unde	erstand what the patient's experience was like. SPs seem to react to this
215	quite sensitively, for	instance, in the sequence below, while the student does not literally claim
216	to know what the pa	atient feels, the SP reacts to the student's attempt to label the patients

9

218		
219	Doctor:	So does that kind of make you a little more fearful?
220	Patient:	What do you think? How would you feel if somebody was sticking a
221		needle in your lung?
222	Doctor:	I can understand you must have a lot of fears and a lot questions
223		about what is going to happen.
224	Patient:	How do you know what I feel really except that I'm angry and I'm
225		unhappy and I wish my own doctor were here and I don't know how
226		the hell I'm going to pay for this biopsy. I came down here to pick up a
227		piece of paper and I'm getting this conversation. So pardon me if you
228		can't understand how I feel but I don't really know how I feel.
229		
230	<u>Ambiguous words ar</u>	nd medical jargon
231	The following dialog	gue demonstrates to the student how the patient equates the word
232	unfortunate with som	nething bad. She requests the student to repair.
233		
234	Doctor:	Unfortunately we found some findings [] We sort of need more testing
235		to figure out exactly what's going on.
236	Patient:	I guess I didn't like that word unfortunately. [] I guess I don't
237		understand what you are trying to tell me.
238	Doctor:	Okay, so the reason I say unfortunately is because unfortunately it's not
239		just something wrong with the imaging that we suspected it to be. It
240		doesn't necessarily mean that this is a bad thing we are not quite sure
241		what it is.
242	Patient:	Oh! So it's not bad oh! Thank God. I was thinking it's something bad.

Next sequence is related to the SPIKES protocol and the student's excessive question asking
before telling the patient anything. The SP repeats the words to the student requesting them
to go to the point quicker.

246

247	Doctor:	Okay, do you have any suspicions or concerns with things we are
248		looking at your lungs?
249	Patient:	Well I'm starting to get suspicious and concerned now about what you
250		are telling me, why don't you tell me what it is that you saw?
251	Doctor:	So, I'm afraid we found a mass in your right lung, it's a bit large. []
252		The radiologist believes that its primary lung cancer. Would you like to
253		know more details about the report on what was found?
254	Patient:	Oh! At some point I'm sure I will, right now I'm just concerned about
255		the word large and the word cancer.

256

257 In both these encounters the student repair fails in that their repair introduces yet another 258 trouble the SP initiates a repair for. The first repair initiation implies that the student goes on 259 for too long to warn that there is bad news coming. The second repair, on the other hand, 260 refers to a pause the patient may need when word combinations such as cancer and large are 261 being introduced. Thus, both of these repair initiatives relate to the rhythm of the dialogue: first, 262 the student is, according to the SP, taking too long to get into the point, and then, proceeding 263 too quickly, though asking about it, after labeling the findings. The repair initiation can thus 264 request a leap backwards or forwards in the encounter, though as a technique it always 265 requires the student to undo the previous utterance. Another learning curve relates to the 266 combination and connotations of certain words, and how the patient may hear selectively only 267 a few words of the sentence.

268	Doctor:	Okay, all right, so, we found some evidence, potential evidence of
269		some early metastasis to the mediastinum. We're going to
270	Patient:	To the what?
271		
272	A variation of Repair	Request originates from the rhythmic mismatch between the student and
273	the SP: the student	has already proceeded to explain further tests required, while the patient
274	is still waiting to hear	what the imaging showed. This situation's core trouble is not necessarily
275	the usage of ambigu	ous words but an absence of necessary words.
276		
277	Doctor:	It is recommended that we do a biopsy.
278	Patient:	Would you just be a little honest and tell me what you think that this is?
279	Doctor:	Look right now without the
280	Patient:	I feel like you just have some kind of information that information that
281		you don't want me to see. I'm getting this feeling from you and I just kind
282		of don't understand what you are telling me.
283		

283

284 **4. Discussion**

285 This study discusses a performative technique termed Repair Request that emerges from the 286 SPs' work in the breaking bad news scenario. The technique has been developed 287 collaboratively with several SPs involved with BBN simulation in the McGovern Medical 288 School, as they watch and provide feedback on each other's performance throughout the 289 years. Though concentrating on used vocabulary and other aspects in the student's speech, 290 the purpose of this technique is not to arrive at a list of forbidden words, but to generally 291 heighten the student's language sensitivity, including the timing of presenting information. For 292 instance, SPs use the technique both to indicate when the student appears to be avoiding

using a particular term, or using it too lightly, and when they should moderate the pace of theconversation according to the patient's needs.

295

296 It's been noted that SPs are more conversationally dominant than actual patients would be^{21} . 297 However, in many ways the SPs' technique represents an aspect of authentic clinical 298 conversation: actual patients are also sensitive to the physician's communication, and patients 299 do, for instance, "correct" their physician when experiencing solicitations inappropriate for their 300 concerns¹⁸. Furthermore, the technique resembles authentic medical practice in that, in real 301 life too, the physician needs to be able to solve any criticism or misunderstanding in-character. 302 This study proposes that authenticity means portraying the potential in patient encounters, 303 thinking that similar "dominant" behavior, such as critical questions, of the SP may be held as 304 internal dialogue by most patients. This does not mean the questions are not there or may not 305 arise later at home. In fact, many patients may not dare to confront their physicians. SPs thus 306 have an indirect patient advocate function here: to speak for all those patients who may have 307 similar questions and feelings without being able to voice them for one reason or another. 308 Seen from another perspective, "echo" has a metaphorical meaning as well: as the SPs not 309 only react to students' actual utterances but also to lack thereof, particular kinds of Repair 310 Requests demand the student to fill the void of an perceived hollowness in their narrative.

311

The purpose of this study was not to assess how realistic the SP's performance was, considering that their sometimes-exaggerated behavior has important educational functions. One of these may be integration and utilization of "failure" as a pedagogical technique. Simulation may provide a unique space to expose and explore pitfalls in the student's communication in a relatively safe manner: in teaching hospitals, for instance, the preceptors typically avoid exposing the interns' errors, and there is a 'preference' for the speakers to 318 correct themselves²². For instance, because the SP character is eccentric, and the situation is 319 knowingly a simulation, she may have freedom to say things that would be humiliating if spoken 320 by a teacher or a peer. This raises complex questions about power-relations and disciplining 321 in medical education. For instance, portraying the angry character includes particular risks: 322 one of the SPs interviewed for this study withdrew from performing the bad news scenario after 323 her angry character had made a student feel "crushed". Apart from this case, however, 324 integration of failure (and resolution) in-character has the potential to increase students' 325 confidence in being able to think on their feet, for instance. The results of this study may inform 326 the SP training as well: the technique could be rehearsed and used consciously in other 327 scenarios. Furthermore, aspects of the SP performance may provide meaningful training 328 materials for patient organizations, in terms of how (not) to prepare for a consultation, for 329 instance.

330

331 This study has identified the performative technique of Repair Request that the SPs use to 332 heighten the students' language sensitivity, including the timing of presenting information. The 333 technique resembles authentic medical practice in that it mirrors the need for physicians to be 334 able to solve criticism or misunderstanding in-character, and it could be rehearsed and used 335 consciously in other simulation scenarios as well. In performing the Repair Request technique, 336 standardized patients are like flesh and blood mirrors, sometimes reflecting the student's 337 speech sharply, sometimes in a distorted (sarcastic) manner, but always with a purpose of 338 allowing them to repeat and repair aspects of their communication in character. The study 339 invites further research on tacit knowledge and pedagogical techniques embedded in SP work, 340 to understand their capacity as reflective practitioners more fully. By knowing more of the 341 improvisatory dimension of their performance, we learn about what kind of image of the doctor 342 and the patient is embedded in educational simulations.

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435 Ethics

436 The Committee for the Protection of Human Subjects in the University of Texas Health Science

437 Center at Houston has approved this study. IRB number: HSC-MS-18-0083.